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عبد الله الصمد  
مستشار طبي  
مستشار في  
الصيدلانية  
والسريرية

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### Education

11/2008 Certificate in **Management of Chronic Pain; Scheduled Approach to the Use of Narcotics**. ACPE.

7/2008 Course in **Current Challenges in the Prevention and Treatment of Small Cell Carcinomas**. Dept of Pathology and Microbiology. School of Medicine – University of South Carolina. Columbia SC (USA).

4/2008 Certificate in **Advance Management of Type II Diabetes**. American Pharmacist Association and ACPE.

2007 **Licentiate in Pharmacy**. North Carolina Board of Pharmacy, NC USA.

2000 – 2005 School of Medicine – University of South Carolina. Columbia, SC (USA)

**PhD in Biomedical Sciences – Department of Pathology and Microbiology.**

- MOLECULAR MECHANISMS OF THE CHEMOPREVENTION OF COLORECTAL CANCER BY PHYTOCHEMICALS.

2005 **Foreign Pharmacy Graduate Examination Committee Certificate (FPGEC Certificate)**. National Association of Boards of Pharmacy, Mount Prospect, IL.

1994 - 1999 University of Jordan. Amman, Jordan.  
**B.S. in Pharmacy**

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### Job titles

10/2006 – Present: **Postdoctoral Researcher**. Green Tea Group, Cancer Chemoprevention Program at Hollings Cancer Center. Dr Mike Wargovich's lab. Charleston, SC.

11/2007 – Present: **Clinical Pharmacist**. CVS Company. Charlotte, NC (USA).

7/2007 – 10/2007: **Registered Pharmacist**. Walgreens Company.

Charlotte, NC (USA).

**10/2006 – 7/2007: Graduate Pharmacist Intern.** Walgreens Company. Gastonia, NC (USA).

**1/2006 – 10/2006: Postdoctoral Fellow.** South Carolina Cancer Center. Columbia, SC (USA)

**6/2003 – 12/2005: Research Assistant.** Dept. Pathology and Microbiology. University of South Carolina. Columbia, SC.

**8/2000 – 5/2003: Research Assistant.** Dept. Basic Pharmaceutical Sciences. University of South Carolina. Columbia SC.

**Professional  
experience**

Excellent experience in performing the following tasks and techniques.

**Pharmacy Experience:** Application of Pharmaceutical Care principles, pharmaceutical calculations, preparation of compound drugs, reconstituting drug suspensions, flavoring medications, monitoring of drug therapy and drug-related toxicity, patient consultation, summarizing drug monographs, drug-drug or drug-food interactions and presentation of seminars to other health care professionals, literature search and following up of any drug-related discoveries or concerns.

**Animal Work:** Management of mice colony including breeding, ear marking and genotyping. S.C. or I.P. injection of the mice with carcinogens, sacrificing the mice by CO<sub>2</sub> asphyxiation or cervical dislocation, collection and processing of mouse tissue, sectioning and immunohistochemical analysis of paraffin-embedded tissues. Tumors count and size comparison. Pathological analysis of colorectal tumors.

**Molecular Assays:** Isolation of DNA, RNA and protein from cell culture or animal tissues. Performing PCR, methylation specific PCR (MSP), reverse transcriptase PCR (RT-PCR) and quantitative real time PCR (qRT-PCR) assays. Bisulfite sequencing of genomic DNA. Pyrosequencing of short sequences of DNA. Radioactive end labeling of DNA Electromobility shift assay (EMSA) and DNA excision assays. Western blotting assay, Northern blotting, Southern blotting, FPLC protein purification and DNA gel purification. Performing protein SDS PAGE separation and agarose or polyacrylamide electrophoresis of genomic and short sequenced DNA. Familiar with basic cell culture techniques and hemocytometer cell counting.

**Computer skills:** designing of primers for DNA or RNA analyses. Quantitation of PCR products and Western, Northern and Southern blotting analyses. Web-based search of medical literature including PubMed, Ovid and MdConsult. Utilization of electronic tools to search for gene, mRNA or protein sequences and structures. Statistical analysis of data of normal or skewed distributions. Excellent command of Microsoft Excel and PowerPoint. Analysis of images by Adobe Photoshop, Adobe ImageReady and ImagePro softwares. Creation of PDF files.

## Training and workshops

Attended the following workshops.

- Confocal Microscopy workshop.
- Laser Capture Microdissection workshop.
- In situ RNA hybridization workshop.
- NIH grant writing workshop.

Was granted the following certificates.

- Teaching Certificate. Qualification to teach both undergraduate and graduate students.
- Radiation Safety Certificate. Qualification to work with radioisotopes including <sup>32</sup>P and tritium.

## Languages

Arabic: (Native Language).

English: Excellent command of written and spoken English. Excellent command of scientific writing and communication in English.

## Publications

- 1) Issa AY, Volate S, Muga SJ, Smith T, Nitcheva D, Wargovich MJ. Green tea selectively targets initial stages of intestinal carcinogenesis in the AOM-Apc<sup>min</sup> mouse model. *Carcinogenesis*. **Sep, 2007**.
- 2) Issa AY, Volate S, Wargovich MJ. The role of phytochemicals in inhibition of cancer and inflammation: New directions and perspectives. *J Food Compost Anal*. 19:5 p 405-419, Aug 2006.
- 3) Sen S, Paraggio NA, Gearheart LA, Connor EE, Issa AY, Coleman RS, Wilson DM 3rd, Wyatt MD, Berg MA. Effect of protein binding on ultrafast DNA dynamics: characterization of a DNA:APE1 complex. *Biophys J*. 2005 Dec;89(6):4129-38. Epub 2005 Sep 30.
- 4) Issa AY, Volate S, Muga SJ, Wargovich MJ. Green tea inhibits the formation of new intestinal adenomas but not established tumors in the AOM-MIN mouse model. *Proc Am Assoc Cancer Res* 46:2488, 2005.
- 5) Volate S, Issa AY, Muga SJ, Wargovich MJ. Oncostatic effects of melatonin on MCF-7 (ER+) and MDA-MB-231 (ER-) breast cancer cells. *Proc Am Assoc Cancer Res* 46:6085, 2005.
- 6) Volate S, Issa AY, Davenport D, Wargovich MJ. Modulation of aberrant crypt foci and apoptosis by dietary herbal supplements. *Proc Am Assoc Cancer Res* 45: 3160, 2004.
- 7) Issa AY, Volate S, Wargovich MJ. Green Tea inhibits the formation of beta catenin accumulated crypt foci in the AOM-MIN mouse model. *Colon Cancer in Murine Models and Humans*, Jackson Labs Annual conferences. Abstract number 32, 2004.
- 8) Issa AY, Volate S and Mike Wargovich. Epigenetic changes induced by green tea correlate with reducing polyp formation in a mouse model for

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colorectal cancer. Journal of Molecular cancer Therapeutics. Submitted.

## References

- 1) Michael J. Wargovich, Ph.D.  
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Hollings Cancer Center  
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- 2) David Reisman, Ph.D.  
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Columbia, SC 29208  
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- 3) Kim Creek, Ph.D.  
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- 4) Sondra Berger, Ph.D.  
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Department of Basic Pharmaceutical Sciences  
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715 Sumter street, College of Pharmacy  
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Email: [Berger@cop.sc.edu](mailto:Berger@cop.sc.edu)
- 5) Richard Goodwin, Ph.D.  
Assistant Professor of Developmental Cell Biology  
Department of developmental Cell Biology and Anatomy  
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